PIANO SOUND MODULE

CSM-10P

ELECTRONIC MUSICAL INSTRUMENT
INSTRUMENTO MUSICAL ELECTRONICO

OPERATION MANUAL 1
MANUAL DE OPERACION 10

CASIO®

CSM-10P PIANO SOUND MODULE

INTRODUCTION

Congratulations upon your selection of the Casio CSM-10P Piano Sound Module. The CSM-10P is a state-of-the-art musical instrument which incorporates the latest in electronic technology for high performance and easy operation.
Each of the CSM-10P's 5 preset keyboard tones is outstandingly realistic thanks to an advanced PCM sound source which utilizes 12-bit sampling technology. In order to fully enjoy the features and functions of your new Casio Piano Sound Module, be sure to read this manual carefully and keep it handy for future reference.

■ Main Features

•Preset Tones

The CSM-10P lets you choose from 5 built-in tones produced by an advanced PCM sound source that used the latest in 12-bit sampling technology. Choose from Piano, Harpsichord, Vibraphone, Elec Piano and Pipe Organ tones — each is crystal clear and true to life.

•Touch Response

From delicate pianissimos to crashing fortissimos, the CSM-10P's "Touch Response" responds accurately to even subtle changes in keyboard performance dynamics. To utilize this important feature, be sure to connect the CSM-10P to a MIDI master keyboard that features a touch response function.

•4 Built-in Demonstration Tune

With just the press of the "DEMO" button, 4 different demonstration tunes are played back automatically, showcasing the amazing performance potential of the CSM-10P.

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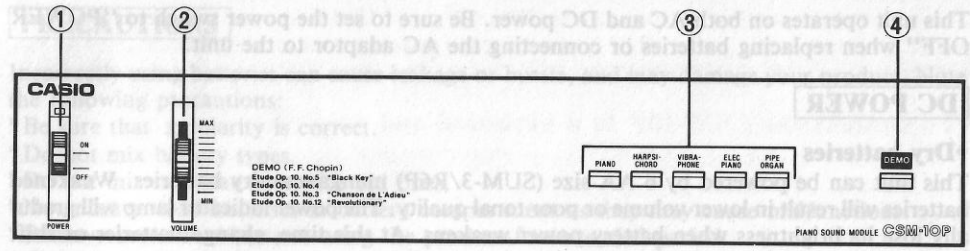
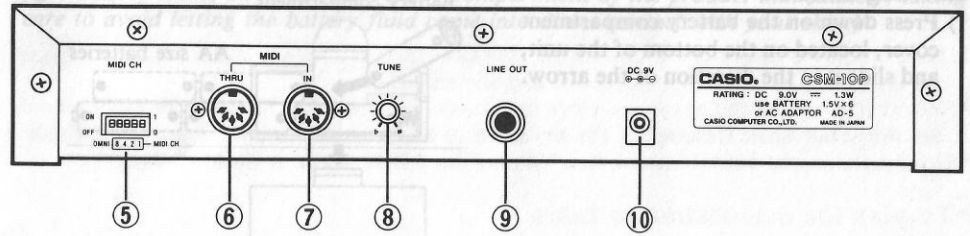
General Guide



<Rear panel>



①Power switch
Switches unit ON and OFF. Indicator above switch lights when power is ON.

②Volume control
Controls overall output volume.

③Tone selectors
Used to select tones.

④Demonstration button
The Demonstration button can be used to start and stop playback of all built-in demonstration tunes.

⑤MIDI channel switches
Used to set the MIDI basic channel or set OMNI ON/OFF.

⑥MIDI THRU terminal
Passes unchanged signal received from one device through MIDI IN to another device.

⑦MIDI IN terminal
Receives external MIDI messages.

⑧Tuning control
Used to adjust the pitch of the entire keyboard within ±30 cents, allowing tuning to other instruments. The standard pitch at the center point is A4=442Hz.

⑨Output jack
For connection to keyboard amplifiers, audio equipment, etc.

⑩AC adaptor jack
For connection of optional AC adaptor (AD-5).

Power Supply

This unit operates on both AC and DC power. Be sure to set the power switch to "POWER OFF" when replacing batteries or connecting the AC adaptor to the unit.

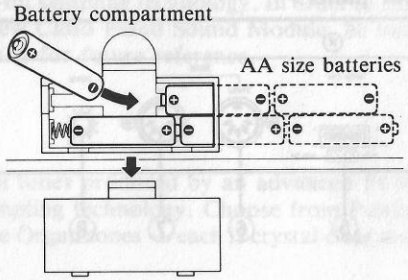
DC POWER

•Dry batteries

This unit can be powered by 6 AA size (SUM-3/R6P) manganese dry batteries. Weakened batteries will result in lower volume or poor tonal quality. The power indicator lamp will gradually lose its brightness when battery power weakens. At this time, change batteries or shift to one of the alternate power sources mentioned below.

Inserting batteries

1) Press down on the battery compartment cover, located on the bottom of the unit, and slide it in the direction of the arrow.



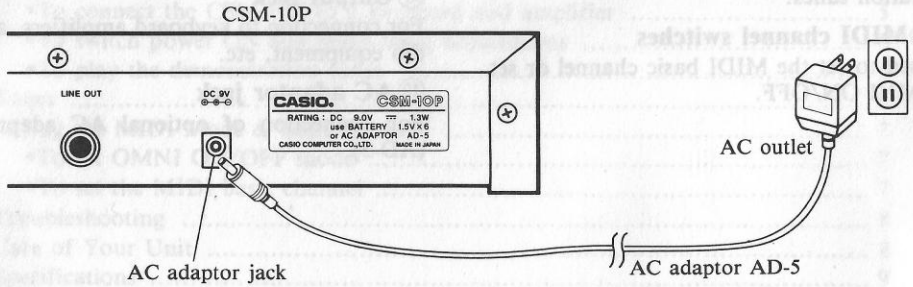
2) Insert six AA batteries taking care that polarity is correct.

* When replacing old batteries to new ones, it is advisable to replace all six batteries at the same time for longer battery life.
* Standard battery life is approximately 4 hours (R6P/SUM-3)/8 hours (LR6/AM3).

AC POWER

An AC adaptor (AD-5, optional) is required to connect to an AC outlet. Use only an adaptor with the same voltage rating (100, 117, 220, or 240) as the power supply in your area to prevent component damage. Plug the AC adaptor into the AC outlet and the cord into the unit. This will automatically cut off the battery power supply.

* Use only genuine CASIO adaptors to avoid risk of damage.
* The adaptor may become warm when left connected to an outlet. This is normal, but the adaptor should be disconnected when not in use.



PRECAUTIONS

Incorrectly using batteries can cause leakage or bursts, and may damage your product. Note the following precautions:

* Be sure that ± polarity is correct.
* Do not mix battery types.
* Do not mix new batteries with old ones.
* Never leave dead batteries in battery compartment as they may cause malfunctions.
* Remove batteries when not using the product for extended period.
* The supplied batteries are not rechargeable.
* Do not expose the battery to direct heat, let it become shorted or try to take it apart. *(If a battery leaks, clean out the battery compartment of the product immediately, taking care to avoid letting the battery fluid come into direct contact with your skin.)*

Basic Connections and Operations

This section tells you how to connect the CSM-10P to a MIDI keyboard and a keyboard amplifier. For best results, use a MIDI keyboard that features initial touch response. This allows you to make use of the CSM-10P's touch response feature.

•To connect the CSM-10P to a keyboard and amplifier

1. First, check to make sure that the power of the CSM-10P, the keyboard and the amplifiers is switched OFF before proceeding.
2. Connect a MIDI keyboard (or other controller) to the CSM-10P using MIDI cables. Be sure to connect the MIDI IN terminal of the CSM-10P to the MIDI OUT terminal of the keyboard.
3. Connect the CSM-10P to a keyboard amplifier using a standard audio cable (output jack).

•To switch power ON and make basic adjustments

1. Slide the power switch of the CSM-10P to the ON position to switch power ON. Then switch on the power of the MIDI keyboard and the amplifier.
• Note that reversing the above sequence may cause the CSM-10P to fail to produce sound.
2. Set the MIDI Basic Channel of the keyboard to the same basic channel as the CSM-10P.

*For details on the basic channel, see **"Setting the MIDI Mode & Basic Channel"**.

•To play the demonstration tunes

The CSM-10P features 4 preset demonstration tunes that showcase its impressive features and functions. To play the tunes, simply press the Demo button. All the 4 tunes are played in an endless loop. Press the Demo button again to stop the tunes.

Tones

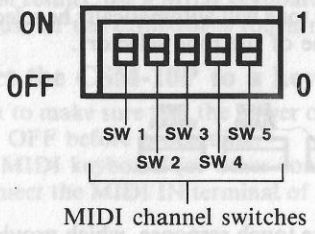
•Tone Selection

When you first switch the power ON, the PIANO tone will automatically be selected. To select another built-in keyboard tone, simply press one of the tone selectors.

* Piano, Vibraphone and Elec Piano tones feature touch response, which provides control of volume and timbre according to initial touch pressure of the connected MIDI keyboard.
* All tones are clear and true-to-life thanks to a sound source system that is based on multiple samples of an instrument sound at various key attack levels.
* This unit can be used for 16-polyphonic performance.

Setting the MIDI Mode & Basic Channel

Before setting the MIDI Mode & Basic Channel, switch the CSM-10P's power OFF.



•To set OMNI ON/OFF mode

Set microswitch SW1 to the ON or OFF position, referring to Chart (A) below.

Chart (A)

SW1	MODE
OFF	OMNI OFF (Mode 3)
ON	OMNI ON (Mode 1)

•To set the MIDI basic channel

Set the MIDI channel switches referring to Chart (B) below.

Chart (B) ○ = OFF/● = ON

Reception channel	SW2	SW3	SW4	SW5
1	○	○	○	○
2	○	○	○	●
3	○	○	●	○
4	○	○	●	●
5	○	●	○	○
6	○	●	○	●
7	○	●	●	○
8	○	●	●	●
9	●	○	○	○
10	●	○	○	●
11	●	○	●	○
12	●	○	●	●
13	●	●	○	○
14	●	●	○	●
15	●	●	●	○
16	●	●	●	●

Troubleshooting

If your CSM-10P operates abnormally, it may indicate that the batteries need to be changed. If the symptoms persist even with fresh batteries, refer to the information below.

Trouble	Possible Cause	Remedy
No sound even if connected MIDI keyboard keys are pressed.	1. Main volume of the CSM-10P turned down. 2. MIDI basic channel of connected MIDI keyboard is not set to the same as that of the CSM-10P. 3. Power of connected keyboard switched ON before CSM-10P power. 4. Volume control of the connected amplifier turned down. 5. Defective connection cords.	1. Increase main volume of the CSM-10P. 2. Set MIDI basic channel of connected keyboard to the same as that of the CSM-10P. 3. Switch power of connected keyboard OFF and then ON again. 4. Adjust volume control of the connected amplifier. 5. Replace connection cords.
Occasional interference or distortion.	Refrigerators, washing machines and similar electric appliances in vicinity of CSM-10P.	Use electrical outlet as far away as possible from the appliance thought to be the cause.

Care of Your Unit

1. Avoid heat, humidity, and direct sunlight.
Do not overexpose the unit to direct sunlight, place it near a heater, or in any area subject to high temperature.

2. Avoid severe impacts and do not drop.
Severe impacts can result in malfunction. When carrying or transporting the unit, protect the buttons by packing with soft cloth.

3. Keep the unit free of liquids, dust, particles, etc.
Do not allow foreign matter to enter between the buttons. Be especially careful of metallic objects such as hairpins, sewing needles or coins. Also, do not allow the unit to get wet.

4. Never attempt to modify any part of the unit.
Your unit is a precision musical instrument made up of sophisticated electronic parts. Any modification of, or tampering with internal components can cause trouble or malfunction.

5. Do not use lacquer thinner or similar chemicals for cleaning.
Clean the unit with a soft cloth dampened with a mild detergent solution and squeeze it until almost dry.

6. Remove batteries before extended storage.
Batteries left in the unit for long periods can leak and cause damage to electronic circuitry.

7. In case of malfunction...
Check whether buttons and connections are set correctly as indicated in this manual. If the unit still does not work properly, contact the original retailer or a nearby dealer. Never attempt to repair the unit yourself. This can result in serious damage of the components.

Specifications

Model: CSM-10P

Polyphonic: 16-note polyphonic

Preset tones: 5; Piano, Harpsichord, Vibraphone, Elec Piano, Pipe Organ

Demonstration tunes: 4

Terminals: Line out [Output impedance: 1kΩ, Output voltage: 1.8V(RMS)MAX], AC adaptor jack(DC 9V), MIDI(IN/THRU)

Tuning control: A4 = 442Hz ±30 cents

Power source: 3-way AC/DC power source;

- •AC: 100,117,220 or 240V (±10V), 50/60 Hz, with optional AC adaptor AD-5
- •DC: 6 AA size manganese dry batteries.
- •Car battery: Requires optional CA-5 car adaptor

Power consumption: 1.3W

Dimensions: 322(W) × 236(D) × 60(H)mm
$12^{11}/_{16}$"(W) × $9^{5}/_{16}$"(D) × $2^{3}/_{8}$"(H)

Weight: 1.7kg (3.7lbs) including batteries

Standard accessories: 6 "AA" size batteries

**Designs and specifications are subject to change without notice.*

GUIDELINES LAID DOWN BY FCC RULES FOR USE OF THE UNIT IN THE U.S.A. (not applicable to other areas).

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

..... reorient the receiving antenna
..... relocate the equipment with respect to the receiver
..... move the equipment away from the receiver
..... plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful: "How to Identify and Resolve Radio-TV Interference Problems". This booklet is available from the US Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

Model **CSM-10P**

MIDI Implementation Chart

Version: 1.0

Function ...		Recognized	Remarks
Basic	**Default**	1	
Channel	**Changed**	1-16	
Mode	**Default**	Mode 1/Mode 3	
	Messages	×	
	Altered		
Note		0-127	0-8 → 24-32 9-20 → 21-32 109-120 → 97-108 121-127 → 97-103
Number:	**True voice**	21-108	
Velocity	**Note ON**	○ 9n v=1-127	× × = no relation
	Note OFF	○ 9n v=0, 8n v= × ×	
After	**Key's**	×	
Touch	**Ch's**	×	
Pitch Bender		×	
	64	○	Sustain pedal
Control			
Change			
Program		○ 0-4	
Change:	**True #**		
System Exclusive		×	
System	**: Song Pos**	×	
	: Song Sel	×	
Common	**: Tune**	×	
System	**: Clock**	×	
Real Time	**: Commands**	×	
Aux	**: Local ON/OFF**	×	
	: All notes OFF	×	
Mes-	**: Active Sense**	×	
sages	**: Reset**	×	
Remarks			

Mode 1 : OMNI ON, POLY
Mode 2 : OMNI ON, MONO
Mode 3 : OMNI OFF, POLY
Mode 4 : OMNI OFF, MONO

○ : Yes
× : No

CASIO

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